

4.3.5 REACTOR CATEGORY

The following sections describe four reactor alternatives for the disposition of surplus Pu: Existing LWR Alternative, Partially Completed LWR Alternative, Evolutionary LWR Alternative, and the CANDU Reactor Alternative. A common activity for each reactor alternative is the MOX fuel fabrication facility, which is also described. The impacts for each reactor alternative would need to include those shown for the MOX fuel fabrication activity. Depending on the alternative, impacts on the following representative DOE sites may be described: Hanford, NTS, INEL, Pantex, ORR, SRS, and a generic range of site conditions within the United States. The sections describe the construction and operational impacts of the Reactor Alternative facilities on the following potentially affected areas: land resources, site infrastructure, air quality and noise, water resources, geology and soils, biological resources, cultural and paleontological resources, socioeconomic, public and occupational health and safety, and waste management. For the CANDU reactor, effects within the United States and Canada are analyzed. Impacts described in these sections are in addition to those associated with the pit disassembly/conversion facility (Section 4.3.1) and the Pu conversion facility (Section 4.3.2).